AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

- 1. (Currently Amended) A method of treating a <u>bone or cartilage</u> tissue defect in a human or other animal subject, comprising the steps of:
- (a) culturing a living tissue endothelial cells in a tissue culture medium to form a tissue culture;
- (b) subjecting said tissue culture to a pulsed electromagnetic field <u>in vitro</u> for at least about 8 hours;
 - (c) extracting said tissue culture medium from said tissue culture; and
- (d) administering said <u>tissue culture</u> medium to the site of said <u>bone or cartilage</u> tissue defect,

wherein said medium is capable of inducing proliferation or regeneration of at least one cell type which provides a therapeutic effect in or near reparing or enhancing said the bone or cartilage tissue defect.

- 2. (Cancelled)
- 3. (Previously Presented) A method according to claim 1 wherein said electromagnetic field is pulsed.
- 4. (Cancelled)

- 5. (Currently Amended) A method according to claim [[4]] 1, for the treatment of a wherein said bone or cartilage tissue defect is associated with osteoporosis, spinal fixation procedure, joint replacement procedure, or bone fracture.
- 6. (Withdrawn) A method of enhancing cell proliferation in a tissue culture of interest, comprising the steps of:
 - (a) culturing a living tissue in a medium to form a first tissue culture;
 - (b) subjecting said first tissue culture to an electromagnetic field;
 - (c) extracting said medium from said first tissue culture; and
 - (d) administering said medium to said tissue culture of interest.
- 7. (Withdrawn) A method according to claim 6 wherein said electromagnetic field is pulsed.
- 8. (Withdrawn) A method according to claim 6 wherein said living tissue comprises endothelial cells.
- 9. (Currently Amended) A composition for the treatment of <u>bone or cartilage</u> tissue defects in a human or other animal subject, comprising a safe and effective amount of a <u>tissue culture</u> medium produced by pulsed electromagnetic stimulation of an <u>endothelial cell</u> tissue culture for at least about 8 hours, and a pharmaceutically-acceptable carrier.
- 10. (Cancelled)

11. (Cancelled)

- 12. (Previously Presented) A composition according to claim 9, wherein said carrier is selected from the group consisting of saline, hyaluronic acid, cellulose ethers (such as carboxymethyl cellulose), collagen, gelatin, an osteoconductive carrier, and mixtures thereof.
- 13. (Withdrawn) A composition according to claim 12, wherein said carrier comprises an osteoconductive carrier selected from the group consisting of bone particles, demineralized bone matrix, calcium phosphate, calcium sulfate, hydroxyapatite, polylactic acid, polyglycolic acid and mixtures thereof.
- 14. (Original) A composition according to claim 9, additionally comprising a growth active material selected from the group consisting of growth factors, hormones, phosphonates and mixtures thereof.
- 15. (Currently Amended) A method of treating a bone or wound defect in a human or other animal subject, comprising the steps of:
- (a) culturing a living tissue endothelial cells in a tissue culture medium to form a tissue culture;
- (b) subjecting said tissue culture to a pulsed electromagnetic field <u>in vitro</u> for at least about 8 hours;
 - (c) extracting said tissue culture medium from said tissue culture; and
 - (d) administering said tissue culture medium to the site of said defect,

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wherein said <u>tissue culture</u> medium is capable of <u>inducingenhancing cell</u> proliferation <u>in</u> <u>tissue or regeneration of at least one cell type which provides a therapeutic effect</u> in or near said defect <u>to repair or enhance said tissue</u>.

- 16. (Previously Presented) The method according to claim 15, wherein said cell type is selected from the group consisting of bone cells, stromal cells and combinations thereof.
- 17. (Withdrawn) The method according to claim 16, wherein said cell type is selected from the group consisting of osteoblasts, osteocytes, osteoclasts and combinations thereof.
- 18. (Previously Presented) The method according to claim 16, wherein said cell type is selected from the group consisting of endothelial cells, adipocytes, chondrocytes, fibroblasts, macrophages, monocytes, lymphocytes, keratinocytes, smooth muscle cells, bone marrow cells and combinations thereof.
- 19. (New) The method according to claim 15, wherein said endothelial cells comprise human umbilical vein endothelial cells.

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